

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Darwill Press  
Attn: John Hilgenberg  
11900 West Roosevelt Road  
Hillside, Illinois 60162

<u>Application No.:</u> 01100015	<u>I.D. No.:</u> 031123ABZ
<u>Applicant's Designation:</u>	<u>Date Received:</u> October 2, 2001
<u>Subject:</u> Sheet-fed Lithographic Printing Facility	
<u>Date Issued:</u> December 4, 2002	<u>Expiration Date:</u> December 4, 2007
<u>Location:</u> 11900 West Roosevelt Road, Hillside	

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of nine non-heatset sheet-fed offset lithographic printing presses pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 25 tons/year for volatile organic material (VOM), 10 tons/year for a single hazardous air pollutant (HAP) and 25 tons/year for totaled HAPs). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits for this location.
2. The lithographic printing presses are subject to the emission limitations and control requirements of 35 Ill. Adm. Code 218.407 and shall comply with the following requirements:
  - a. The VOM content in the as-applied fountain solution is 5 percent or less, by volume;
  - b.
    - i. The VOM content of the as-used cleaning solution is less than or equal to 30 percent, by weight; or
    - ii. The VOM composite partial vapor pressure of the as-used cleaning solution is less than 10 mmHg at 20°C (68°F);
  - c. The VOM containing cleaning materials, including used cleaning towels, associated with any lithographic printing line are kept, stored or disposed of in any manner other than in closed containers.

3. The paper coating operations performed on the printing press are subject to emission limitations of 35 Ill. Adm. Code Part 218, Subpart F. The VOM content of the coatings, as applied, on the printing press shall not exceed 2.3 lb/gal excluding water and any compounds which are specifically exempted from the definition of VOM.
4. Plant-wide VOM emissions from printing and coating operations shall not exceed 2.0 tons/month and 23.0 tons/year. The VOM emissions shall be calculated using the following equations:

$$E = \sum(I \times V_I \times 0.05) + \sum(FS \times V_{FS}) + \sum(S \times V_S \times 0.5),$$

where

E - VOM emissions (ton);  
I - ink usage (ton);  
 $V_I$  - VOM content of ink (wt. fraction);  
FS - fountain solution and coatings usage (ton);  
 $V_{FS}$  - VOM content of fountain solution and coating (wt. fraction);  
S - cleaning solvent usage (ton);  
 $V_S$  - VOM content of cleaning solvent (wt. fraction).

These limits are based on the maximum production rate, 95% ink VOM retention and 50% cleaning solvent retention. Compliance with annual limits shall be determined from a running total of 12 months of data.

5. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a Clean Air Act Permit Program permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a Clean Air Act Permit Program permit from the Illinois EPA.
6. The Permittee shall maintain monthly records of the following items:
  - a. Names and amounts of lithographic inks, fountain solutions and clean-up solvents used (lb/month or gallons/month);
  - b. VOM and HAP content of materials in item (a) (lb/gallon or weight %); and
  - c. VOM and HAP emission calculations.
7. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA and USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours

so as to be able to respond to the Illinois EPA or USEPA request for records during the course of a source inspection.

8. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
9. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Illinois EPA  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Illinois EPA  
Division of Air Pollution Control  
9511 West Harrison  
Des Plaines, Illinois 60016

10. The Permittee shall submit the following additional information with the Annual Emission Report, due May 1st of each year: annual inks and solvents usage from the prior calendar year.

If you have any questions on this permit, please call Valeriy Brodsky at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

DES:VJB:psj

cc: IEPA, FOS Region 1  
IEPA, Compliance and Enforcement Section  
Lotus Notes

#### Attachment A - Emissions Summary

This attachment provides a summary of the maximum emission from the printing facility operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are well below the levels, e.g., 25 tons per year of VOM, 10 tons per year for a single HAP, and 25 tons per year for totaled HAP at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that material is handled, and control measures are more effective than required in this permit.

1. Plant-wide VOM emissions from printing and coating operations shall not exceed 2.0 tons/month and 23.0 tons/year. The VOM emissions shall be calculated using the following equations:

$$E = \sum(I \times V_I \times 0.05) + \sum(FS \times V_{FS}) + \sum(S \times V_S \times 0.5),$$

where

E - VOM emissions (ton);  
I - ink usage (ton);  
V<sub>I</sub> - VOM content of ink (wt. fraction);  
FS - fountain solution and coatings usage (ton);  
V<sub>FS</sub> - VOM content of fountain solution and coating (wt. fraction);  
S - cleaning solvent usage (ton);  
V<sub>S</sub> - VOM content of cleaning solvent (wt. fraction).

VJB:psj